

## WHAT IS CLAIMED IS:

- 1. A method for automated shopping, utilizing an order center
- connected to a data network, the method comprising the steps of:
- reading a machine-readable vendor identity code with a scanning
- 5 means, said scanning means having a memory element;
- storing said vendor identity code in a transaction file stored in said
- 7 memory element;
- reading a machine-readable user identity code with said scanning
- 近 9 means;

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- storing said user identity code in said transaction file;
- reading a machine-readable product identity code with said scanning
- 12 means;
- storing said product identity code in said transaction file;
- connecting said scanning means to the order center over the data
- 15 network; and,
- transmitting said transaction file over the data network to the order
- 17 center.
- 2. A method as defined by claim 1 wherein said scanning means
- memory element has an order center data network address stored therein, the
- method further comprising the step of assigning said order center data network

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- 4 address to said transaction file, and wherein said transaction file is transmitted
- over said data network to said order center network address.
- 3. A method as defined by claim 1 further comprising the steps of:
  receiving said transaction file at the order center;
  extracting said vendor identity code from said transaction file;
  determining a destination vendor data network address, and
  forwarding said transaction file to said destination vendor data
  - 4. A method as defined by claim 1 wherein said scanning means comprises a handheld wand having two distal ends, a first distal end having optical reader means for reading said vendor identity code, said user identity code, said product identity code, and a second distal end having a connector.
- 5. A method as defined by claim 1 wherein said step of connecting said scanning means to the order center over the data network further comprises connecting said scanning means to a cradle module, said cradle module connected
- 4 to the order center over the data network.

network address over the data network.



- 6. A method as defined by claim 5 wherein said cradle module having
- a communication module therein for connecting to the order center over the data
- 3 network.
- 7. A method as defined by claim 5 wherein said cradle module further
- 2 comprises peripheral connection means for connecting to a peripheral device.
- 8. A method as defined by claim 7 wherein said peripheral device comprises a printer.
  - 9. A method as defined by claim 7 wherein said peripheral device comprises a monitor.
    - 10. A method as defined by claim 7 wherein:
- said scanning means comprises an elongated handheld wand having
- a first connector at a first distal end;
- said cradle module having a top side, said top side having a recess, a
- second connector within said recess for mating with said wand first connector;
- 6 and,
- wherein said step of connecting said scanning means to said cradle
- 8 module comprises placing said wand first distal end in said cradle module top side

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recess whereby said wand first connector operably engages said cradle second 9 connector. 10

## A method as defined by claim 1 wherein: 11.

said step of reading said machine-readable vendor identity code with 2 said scanning means further comprises placing said scanning means in a vendor 3 mode prior to reading said vendor identity code;

said step of reading a machine-readable user identity code with said scanning means further comprises placing said scanning means in a user mode prior to reading said user identity code;

said step of reading a machine-readable product identity code with said scanning means further comprises placing said scanning means in a product mode prior to reading said product identity code; and,

said step of transmitting said transaction file over the data network to the order center further comprises placing said scanning means in an order mode prior to transmitting said transaction file.

- A method as defined by claim 11 wherein said scanning means 12. further comprises:
- vendor mode switching means for placing said scanning means in 3
- said vendor mode, vendor mode indicator means for indicating said scanning
- means is in said vendor mode; 5

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- user mode switching means for placing said scanning means in said
  user mode, user mode indicator means for indicating that said scanning means is in
  said user mode; and,
  - product mode switching means for placing said scanning means in said product mode, product mode indicator means for indicating that said scanning means is in said product identity mode.
    - 13. A method as defined by claim 12 wherein:

said vendor mode switching means comprise an operable vendor mode button, said vendor mode indicator means comprise a vendor mode indicator light;

said user mode switching means comprise an operable user mode
button, said user mode indicator means comprise a user mode indicator light; and,
said product mode switching means comprise an operable product
mode button, said product mode indicator means comprise a product mode

- 9 indicator light.
- 1 14. A method as defined by claim 11 wherein said scanning means
  2 further comprises order mode switching means for placing said scanning means in
  3 said order mode, and wherein said scanning means further comprises order mode
- 4 indicator means for indicating said scanning means is in said order mode.

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- 1 15. A method as defined by claim 1 wherein the method further comprises the step of:
  - receiving a transaction confirmation signal with confirmation indicator means, said confirmation signal being sent from the order center upon receipt of said transaction file.
  - 16. A method as defined by claim 15 wherein said confirmation indicator means comprise a sub-component of said scanning means.
    - 17. A method as defined by claim 15 wherein:
  - said step of connecting said scanning means to the order center over the data network further comprises connecting said scanning means to a cradle module connected to the data network; and,
- wherein said confirmation indicator means comprise a subcomponent of said cradle module.
  - 18. A method as defined by claim 15 wherein:
- said step of connecting said scanning means to the order center over
- the data network further comprises connecting said scanning means to a cradle
- 4 module connected to the data network; and,
- wherein said confirmation indicator means comprise a peripheral
- 6 device attached to said cradle means.

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- 1 19. A method as defined by claim 18 wherein said peripheral device comprises a printer.
- 20. A method as defined by claim 18 wherein said peripheral device comprises a monitor.
  - 21. A method as defined by claim 1 wherein said scanner means further comprises an order status switch means, and wherein the method further comprises the step of:
  - activating said order status switch means to transmit an order status request over the data network to the order center, said order status request comprising at least said user identity code; and,
- receiving an order status reply with a peripheral device attached to the data network.
- 1 22. A method for automated shopping from a catalogue, the method
- utilizing a data network, an order center connected to the data network, a cradle
- module connected to the data network, and an elongated handheld scanning wand
- having a memory module, the method comprising the steps of:
- placing the wand in a vendor mode by activating a vendor mode
- 6 switch means on the wand;

	7	reading a machine-readable user vendor identity code from the
	8	atalog with optical reading means contained in a first distal end of the wand;
	9	storing said vendor identity code in a transaction file in the wand
	10	nemory module;
	11	placing the wand in a user mode by activating a user mode switch
	12	neans on the wand;
	13	reading a machine-readable user identity code with said wand optical
	14	eading means;
	15	storing said user identity code in said transaction file;
The second second	16 17	placing the wand in a product mode by activating a product
	17	witching means on the wand;
	18	reading a machine-readable product code from the catalog with said
	19	vand optical reading means;
	20	storing said product code in said transaction file;
	21	connecting a first connector on the wand second distal end with a
	22	nating second connector on the cradle;
	23	placing said wand in an order mode by switching an order mode
	24	witch on the wand;
	25	transmitting said transaction file over the data network to the order
	26	enter; and,
	27	receiving a confirmation signal with a confirmation indicator sent
	28	rom the order center over the data network upon receipt of said transaction file.

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- A method as defined by claim 22 wherein the method further 23. 1 comprises the steps of: 2
- extracting said vendor identity code from said transaction file at the 3 order center; and,
- transmitting said order over the data network to a vendor 5 corresponding to said vendor identity code. 6
  - 24. A method as defined by claim 22 wherein said confirmation indicator comprises a printer connected to the cradle module.
  - 25. A method for automated shopping from a catalogue, the method utilizing a data network, an order center connected to the data network, a cradle module connected to the data network, and an elongated wand having two distal ends and a memory module, the method comprising the steps of:
- activating vendor mode switch means on the wand to place the wand 5 in a vendor mode; 6
  - reading a machine-readable user vendor identity code from the catalog with optical reading means contained in the wand first distal end;
- storing said vendor identity code in a transaction file in the wand 9 memory module; 10

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	11		activating user mode switch means on the wand to place the wand in
	12	a user mode;	
	13		reading a machine-readable user identity code with said wand optical
	14	reading mean	S;
	15		storing said user identity code in said transaction file;
	16		activating product mode switch means on the wand to place the
	17	wand in a pro	duct mode;
	18		reading a machine-readable product code from said catalog with said
	19	wand optical	reading means;
	20		storing said product code in said transaction file;
i	21		connecting a first connector on the wand second distal end with a
	22	mating secon	nd connector on the cradle module;
	23		transmitting said transaction file from the wand memory module
	24	through the ca	radle and over the data network to the order center;
	25		receiving a confirmation signal with a printer connected to the cradle
	26	module, said	confirmation signal sent over the data network from the order center
	27	upon receipt of	of said transaction file;
	28		activating order status mode switch means on the wand to place the
	29	wand in an or	der status mode;
	30		transmitting an order status request from the wand through the cradle
	31	over the data	network to the order center, said order status request comprising at
	32	least said use	r identity code: and.

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receiving an order status response corresponding to said user identity code with said printer connected to the cradle, said order status response sent from the order center over the data network upon receipt of said order status request.

26. A computer program product for conducting automated shopping, 1 the computer program product utilizing a data network and an order center 2 connected to the data network, the computer program product comprising 3 computer executable instructions stored in a computer readable medium, the computer readable medium embedded in a handheld scanning means, the 5 instructions when executed causing the scanning means to: 6 read a machine readable vendor code; 7 store said vendor code in a transaction file held on a memory module 8 within the scanning means; read a machine readable user identity code; 10 store said user identity code in said transaction file; 11 read a machine readable product identity code; 12 store said product identity code in said transaction file; 13 connect to the data network; and, 14 transmit said transaction file over the data network to the order 15

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- 27. A computer program product as defined by claim 26 wherein the 1
- computer program product further utilizes a cradle module connected to the data 2
- network, the cradle module for connection to the scanning means, and wherein 3
- said computer program instructions when executed cause said scanning means to 4
- transmit said transaction file through the cradle to the order center. 5
  - A computer program product as defined by claim 27 wherein the 28. scanning means comprise an elongated handheld wand having two distal ends with optical reading means contained in a first distal end and a connector for connecting to the cradle module on the second distal end.
  - 29. A computer program product as defined by claim 26 wherein the computer executable instructions when executed further cause the scanning means to:
- enter into a vendor mode upon activation of a vendor mode switch means on the scanning means prior to reading said vendor identity code;
- enter into a user mode upon activation of a user mode switch means 6 on the scanning means prior to reading said user identity code; 7
- enter into a product mode upon activation of a product mode switch 8 on the scanning means prior to reading said product identity code; and, 9

enter into an order mode upon activation of an order mode switch
means prior to transmitting said transaction file over the data network to the order
center.

30. A computer program product for conducting automated shopping, the computer program product utilizing a catalog, a data network, a cradle module connected to the data network, a peripheral device connected to the cradle module, and an order center connected to the data network, the computer program product comprising computer executable instructions stored in a computer readable medium, the computer readable medium embedded in a handheld wand having a scanning means and a memory module, the instructions when executed causing the wand to:

enter into a vendor mode upon activation of a vendor mode switch means on the wand;

read a machine readable vendor code from the catalog using the optical reader while in said vendor mode;

store said vendor code in a transaction file held on the wand memory module;

enter into a user mode upon activation of a user mode switch means on the wand;

read a machine readable user identity code from the catalog while in said user mode;



19	S	store said user identity code in said transaction file;
20	e	enter into a product mode upon activation of a product mode switch
21	means on the v	wand;
22	r	read a machine readable product identity code from the catalog
23	while in said p	product mode;
24	S	store said product identity code in said transaction file;
25	€	enter into an order mode upon activation of an order mode switch
26	means;	
27	C	connect to the data network through the cradle module;
28	t	ransmit said transaction file over the data network to the order
29	center while in	said order mode;
30	2	accept a confirmation signal transmitted over the data network from
31	the order cente	er; and,
32	C	output said confirmation signal over the peripheral device.